

## INTERNATIONAL SEARCH REPORT

International Application No

PCT/EP2004/051315

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C07D471/04 A61K31/4745 A61P25/00 A61P35/00

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C07D A61K A61P

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, BIOSIS, EMBASE, BEILSTEIN Data, CHEM ABS Data

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	WO 03/051877 A (PERNERSTORFER JOSEF ;BAYER AG (DE); BURKHARDT NILS (DE); NIEWOEHNEN) 26 June 2003 (2003-06-26) cited in the application examples	1-22
Y	WO 03/014117 A (ERGUEDEN JENS-KERIM ;FLUBACHER DIETMAR (DE); NIEWOEHNEN MARIA HF ( ) 20 February 2003 (2003-02-20) cited in the application examples	1-22
Y	WO 03/014116 A (ERGUEDEN JENS-KERIM ;FLUBACHER DIETMAR (DE); STOLTEFUSS JURGEN (DE) 20 February 2003 (2003-02-20) cited in the application examples	1-22
	----- -/--	

☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

## \* Special categories of cited documents :

\*A\* document defining the general state of the art which is not considered to be of particular relevance

\*E\* earlier document but published on or after the international filing date

\*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

\*O\* document referring to an oral disclosure, use, exhibition or other means

\*P\* document published prior to the international filing date but later than the priority date claimed

\*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

\*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

\*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

\*Z\* document member of the same patent family

Date of the actual completion of the international search

28 October 2004

Date of mailing of the international search report

11/11/2004

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2  
NL - 2280 HV Rijswijk  
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  
Fax: (+31-70) 340-3016

Authorized officer

Fazzi, R

BEST AVAILABLE COPY

## INTERNATIONAL SEARCH REPORT

International Application No

PCT/EP2004/051315

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	WO 02/48144 A (ERGUEDEN JENS-KERIM ;FLUBACHER DIETMAR (DE); NIEWOEHNER ULRICH (DE) 20 June 2002 (2002-06-20) cited in the application examples -----	1-22
Y	US 5 965 575 A (MILLAN MARK ET AL) 12 October 1999 (1999-10-12) cited in the application column 1 - column 2 -----	1-22
A	DIAZ M. ET AL.: "Synthesis of Lamellarins I and K by '3+2' Cycloaddition of a Nitrone to an Alkyne" SYNLETT, vol. 7, 2001, pages 1164-1166, XP001155819 page 1165 -----	1-22
A	MEYER H: "HETEROCYCLEN AUS NITROALKENEN, I.-//PYRROLE DURCH CYCLISIERENDE MICHAEL-ADDITION VON ENAMINEN//HETEROCYCLES FROM NITROALKENES, I.- PYRROLES VIA MICHAEL ADDITION OF ENAMINES" LIEBIGS ANNALEN DER CHEMIE, VERLAG CHEMIE GMBH. WEINHEIM, DE, no. 9, 1981, pages 1534-1544, XP001068958 ISSN: 0170-2041 example 9 -----	1-22
A	HERSHENSON: "Synthesis of Ring-Fused Pyrroles.II.1,3-Dipolar Cycloaddition Reactions of Munchnone Derivatives Obtained from Tetrahydroisoquinoline-1-carboxylic Acids" J.ORG.CHEM., vol. 40, no. 6, 1975, pages 740-743, XP002302597 examples 6-8 -----	1-22

BEST AVAILABLE COPY

# INTERNATIONAL SEARCH REPORT

International application No.  
PCT/EP2004/051315

## Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.:  
because they relate to subject matter not required to be searched by this Authority, namely:  
Although claim 22 is directed to a method of treatment of the human/animal body (Article 52(4) EPC), the search has been carried out and based on the alleged effects of the compound/composition.
2. ☐ Claims Nos.:  
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:  
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

## Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this International application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

### Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

# INTERNATIONAL SEARCH REPORT

information on patent family members

International Application No

PCT/EP2004/051315

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 03051877	A	26-06-2003	WO 03051877 A1	26-06-2003
WO 03014117	A	20-02-2003	WO 03014115 A1	20-02-2003
			WO 03014117 A1	20-02-2003
WO 03014116	A	20-02-2003	WO 03014116 A1	20-02-2003
			US 2003236276 A1	25-12-2003
WO 0248144	A	20-06-2002	AU 2798502 A	24-06-2002
			CA 2431326 A1	20-06-2002
			WO 0248144 A1	20-06-2002
			EP 1347973 A1	01-10-2003
			JP 2004517843 T	17-06-2004
			US 2004138249 A1	15-07-2004
US 5965575	A	12-10-1999	FR 2761358 A1	02-10-1998
			AT 268767 T	15-06-2004
			AU 731018 B2	22-03-2001
			AU 5967798 A	01-10-1998
			BR 9803295 A	21-03-2000
			CA 2232116 A1	27-09-1998
			CN 1197072 A , B	28-10-1998
			DE 69824332 D1	15-07-2004
			DK 867436 T3	04-10-2004
			EP 0867436 A1	30-09-1998
			HK 1014954 A1	10-01-2003
			JP 10279578 A	20-10-1998
			NO 981415 A	28-09-1998
			NZ 330041 A	28-01-1999
			PL 325575 A1	28-09-1998
			ZA 9802607 A	30-09-1998

BEST AVAILABLE COPY